What is daimed is:

Claims

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- 1. Solid oxide fuel cell with a planar support in form of a porous plate structure supporting on one planar surface a layer of electrode active material and with internally elongated gas supply channels formed inside the structure.
- 2. Solid oxide fuel cell of claim 1, wherein a planar surface on opposite side to the surface supporting
 electrode active material being provided with a dense layer
 of gas impermeable and electronic conductive material.
- 3. Solid oxide fuel cell of claim 2, wherein the dense layer is a ceramic and/or metallic layer.
 - 4. Solid oxide fuel cell of claim'1, wherein the electrode layer is active in electrochemical anode reactions and wherein the layer is covered by a further dense layer of electrolyte material.
 - 5. Solid oxide fuel cell of claim 1, wherein the porous plate is made from ferritic stainless steel, nickel-based alloys and/or high chromium alloys.

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- 6. Solid oxide fuel cell of claim 1, wherein rim of the porous plate is gas impermeable.
- 7. Solid oxide fuel cell of claim 1, wherein rim of the porous plate is supporting a dense layer of electrolyte material.

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8. Solid oxide fuel cell of claim 1, wherein the porous structure is catalytic active in conversion of feed gas to fuel cell reactant gas.

9. Use of a solid oxide fuel cell according to anyone of the preceding claims in generation of power from particulate matter containing gas.

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